

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

88241 Coax - 75 Ohm Coax



For more Information
please call

1-800-Belden1



General Description:

23 AWG Solid .023" bare copper-covered steel conductor, plenum, FEP insulation, bare copper braid shield (95% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|----------------------------------|------------|
| 1 | 23 | Solid | BCCS - Bare Copper Covered Steel | .023 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--------------------------------------|------------|
| FEP - Fluorinated Ethylene Propylene | .132 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------------------|
| FEP - Fluorinated Ethylene Propylene |

Overall Cable

Overall Nominal Diameter: 0.190 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 36 lbs/1000 ft.

Max. Recommended Pulling Tension: 62 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (RoHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

RG Type: 59/U

Flame Test

UL Flame Test: NFPA 262

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CSA Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Burial: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 8241

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μH/ft)
.126

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
19.5

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/ft)
1.45

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
49.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.6

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | .5 |
| 10 | 1.0 |
| 50 | 2.3 |
| 100 | 3.3 |
| 200 | 5.2 |
| 400 | 8.4 |
| 700 | 11.6 |
| 900 | 13.8 |
| 1000 | 14.8 |

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Operating Voltage - Non-UL:

Voltage
1700 V RMS

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|------------------------|
| 88241 0101000 | 1,000 FT | 39.000 LB | BLACK | C | 23 SH FEP RG-59/U COAX |
| 88241 010500 | 500 FT | 20.500 LB | BLACK | C | 23 SH FEP RG-59/U COAX |

Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 1 Revision Date: 08-21-2012

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